



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812,226	03/19/2001	Eric Sit	02316.1410US01	9465

23552 7590 08/11/2004

MERCHANT & GOULD PC
P.O. BOX 2903
MINNEAPOLIS, MN 55402-0903

EXAMINER

PHU, SANH D

ART UNIT	PAPER NUMBER
----------	--------------

2682

DATE MAILED: 08/11/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/812,226

Applicant(s)

SIT ET AL.

Examiner

Sanh D Phu

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) 15-37 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11, 12, 14 is/are rejected.
- 7) ☒ Claim(s) 10 and 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6</u> . | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 2682

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I (claims 1-14) in the reply filed on 6/14/2004 is acknowledged.

Information Disclosure Statement

2. The IDS filed 1/08/2002 has been considered and recorded in the file.

Claim Rejections – 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 1-4, 6-9, 11-12, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Follingstad et al (6,345,986) in view of Lutz (6,483,029).

Regarding to claim 1, see Fig. 1A, 1B and 2, Follingstad et al discloses a telecommunications chassis (100) (see Fig. 1A and 1B), comprising:

a inner housing (20) having a first and second horizontal surface (38,40) and a first and second vertical surface (36R, 36L), the first and second vertical surfaces being disposed between the first and second horizontal surfaces, wherein the first and second horizontal surfaces and the first and second vertical surfaces are made of metal and are conductively connected (see col. 3, 65 to 4, line 49);

a vertical backplane (28) having connectors for interfacing with modules, the vertical backplane being disposed between the first and second horizontal surfaces and the first and second vertical surfaces, the vertical backplane establishing contact with the first and second horizontal surfaces and the first and second vertical surfaces, the vertical backplane having a ground conductor electrically connected to the connectors (see Fig. 1A, 1B and 2);

He does not disclose an outer housing

Lutz discloses the outer housing (100) ground conductor electrically connected to the ground conductor of the vertical backplane (104) of an inner housing (102) because of the housing 102 is a structure that house the

component of the out housing (see Fig. 2, col. 3, lines 4–5), Lutz also disclose the outer housing (100) encompassing the shielding chamber and the vertical backplane (104) and having an open side (116) for receiving telecommunications modules, and the outer housing having a first cover surface (114) that is parallel to the inner housing and having a second cover surface (120) that is also parallel to but within a different spatial plane from the vertical backplane, wherein spacing between the first cover surface and the inner housing surface and spacing between the second cover surface and the vertical backplane form an airspace (see Fig. 1A, 1B and 2, col. 2, lines 43 to col. 4, line 29); and

Therefore, at the time of the invention was made, it would have been obvious for one skilled in the art to integrate telecommunication chassis as taught by Lutz in order to prevent the radiation and noise interference from outside world into the system, therefore, the telecommunication chassis with the outer housing is able to shield off and anti the radiation as well as noise interference.

Regarding to claim 2, Lutz discloses that the telecommunications chassis wherein the outer housing includes a third cover surface that is substantially parallel to but within a different spatial plane from the second horizontal surface, the third cover surface having a plurality of holes adjacent to the airspace (see fig. 1 A, 1B and 2).

Regarding to claim 3, Lutz discloses that the telecommunications chassis wherein the second cover surface (300) has a plurality of holes adjacent to the airspace (see Fig. 3A).

Regarding to claim 4, Lutz discloses the telecommunications chassis further comprising a faceplate (110) parallel to but within a different spatial plane from the vertical backplane (104), the faceplate being disposed within the open side of the outer housing, the faceplate for contacting telecommunications modules installed in the chassis, the faceplate having an aperture for receiving telecommunications modules (see fig. 1A, 1B and 2).

Regarding to claim 6, Lutz discloses the telecommunications chassis further comprising a handle (108) mounted to the outer housing (see Fig. 1A, 1B and 2).

Regarding to claim 7, Follingstad et al discloses that the telecommunications chassis wherein the first and second horizontal surfaces have longitudinal slots for guiding and receiving telecommunications modules (see Fig. 2, col. 4, lines 31 to 49).

Regarding to claim 8, Follingstad et al discloses that the telecommunications chassis wherein the first and second horizontal surfaces have longitudinal slots for guiding and receiving telecommunications modules, and the faceplate has notches that align with the slots (see Fig. 2, col. 4, lines 31 to 49).

Regarding to claim 9, Follingstad et al discloses that the telecommunications chassis wherein the first and second horizontal surfaces have a plurality of holes (see Fig. 2, col. 4, lines 31 to 49).

Regarding to claim 11, Lutz discloses that the telecommunications chassis wherein the outer housing is made of metal (see col. 4, lines 54–59) and the chassis ground conductor is conductively connected to the outer housing (the inner housing 102 is a structure the component of outer housing 100).

Regarding to claim 12, Lutz disclose that the telecommunications chassis further comprising a plurality of modules disposed within the shielding chamber and interfaced with the vertical backplane, the modules having circuitry enclosed within a shell, the shell having a first shell surface for engaging the first horizontal surface and a second shell surface for engaging the second horizontal surface (see Fig. 1A, 1B and 2).

Regarding to claim 14. The telecommunications chassis wherein the top and bottom horizontal surfaces have zinc chromate plating (see col. 3, lines 54-59).

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Follingstad et al (6,345,986) in view of Lutz (6,483,029) and further in view of Roy (5,398,161).

Regarding to claim 5, Follingstad et al in view of Lutz fails to teach the telecommunications chassis comprising a housing door.

However, Roy teaches that the telecommunications chassis comprising a housing door (96) hinged to the outer housing at the open side (see Fig. 3).

Therefore, at the time of the invention was made, it would have been obvious for one skilled in the art to integrate the telecommunication chassis as taught by Roy to have a door in order to prevent dust and safety issue so that the system can be more reliable and stable than without a door.

Allowable Subject Matter

6. Claim 10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding to claim 10, the prior art of record fails to teach the telecommunications chassis comprising a power supply mounted to the second cover surface and disposed within the airspace.

Regarding to claim 13, the prior of record fails to teach the telecommunications chassis wherein the circuitry receives a monitor signal, amplifies the monitor signal to generate an amplified monitor signal, recovers data and clock information from the amplified monitor signal, and produces an output signal repeating the recovered data and clock information, and wherein

the monitor signal and the output signal have data rates greater than about 52 megabits per second.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (703) 305-8635. The examiner can normally be reached on 8:00-16:30.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-8635.

Sanh D. Phu
Examiner
Art Unit 2682

SP


LEE NGUYEN
PRIMARY EXAMINER